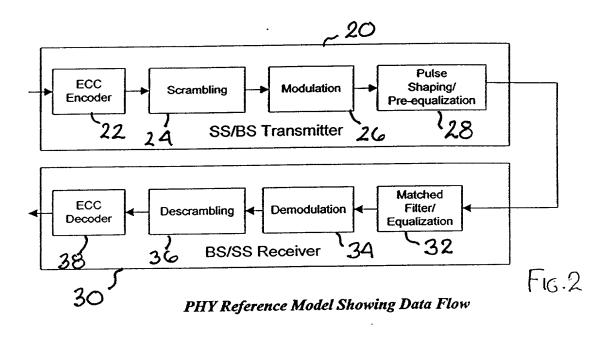
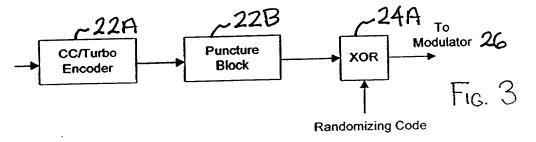


Wireless Access Reference Model

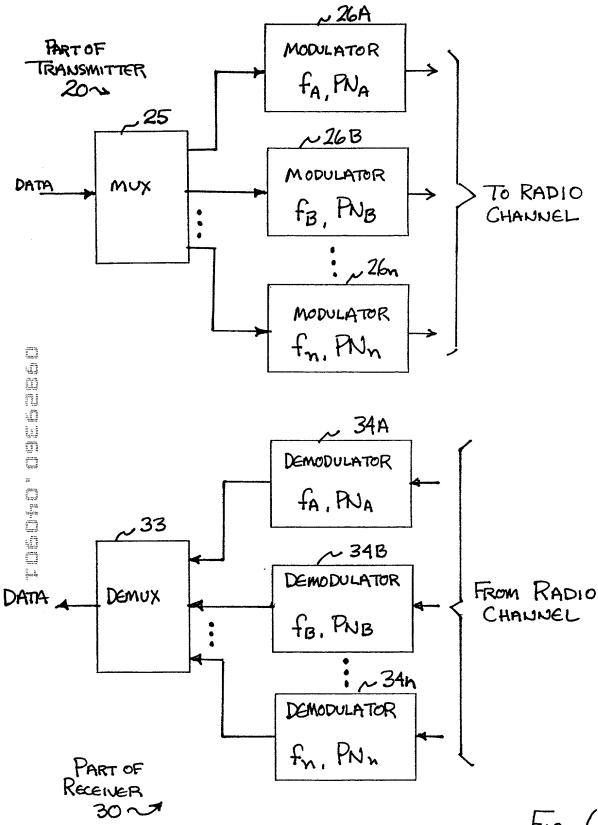




, s - 3	Modulation and Channel Coding				
Parameter	QPSK w/ R=4/5 Coding	16-QAM w/ R=4/5 Coding	64-QAM w/ R=4/5 Coding		
	(1.6 bits/sym)	(3.2 bits/sym)	(4.8 bits/sym)		
RF Channel Bandwidth	3.5 MHz	3.5 MHz	3.5 MHz		
Chip Rate	2.56 Mcps	2.56 Mcps	2.56 Mcps		
Communication Channel Bandwidth	4.096 Mbps	8.192 Mbps	12.288 Mbps		
Peak Data Rate	4.096 Mbps	8.192 Mbps	12.288 Mbps		
CDMA Channel Bandwidth (SF=1)	4.096 Mbps	8.192 Mbps	12.288 Mbps		
CDMA Channel Bandwidth (SF=16)	256 kbps	512 kbps	768 kbps		
CDMA Channel Bandwidth (SF=128)	32 kbps	64 kbps	96 kbps		
Modulation Factor	1.17 bps/Hz	2.34 bps/Hz	3.511 bps/Hz		

Hypothetical parameters for a 3.5 MHz RF channelization Fig.4

	QPSK		16 QAM		64 QAM	
Number of Elements (Mbps) Aggregate Capacity (Mbps)	Modulation Factor	Aggregate Capacity (Mbps)	Modulation Factor	Aggregate Capacity (Mbps)	Modulation Factor	
1	4.096	1.17	8.192	2.34	12.288	3.511
2	8.192	2.34	16.384	4 .68	24.576	7.022
4	16.384	4.68	32.768	9,36	49.152	14.044
8	32.768	9.36	65.536	18.72	98.304	28.088
16	65.536	18.72	131.072	37.44	196.608	56.176



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Fig. 6